

Ispci & idebus=xx confusion

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To: Linux Kernel Mailing List <linux-kernel@vger.kernel.org>

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Greetings;

In an `lspci -vv`, all devices have a Cap and 66 in the report, but some show it s a + and some show it as a -, like this:

```
[root@coyote root]# lspci -vv|grep 66Mhz
```

```
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort+ >SERR-
    Status: Cap+ 66Mhz+ UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort+ >SERR-
    Status: Cap- 66Mhz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
    Status: Cap+ 66Mhz+ UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR-
```

So I set the option "idebus=66" on the grub command line and rebooted. But eventually it reports in dmesg:

```
VP_IDE: User given PCI clock speed impossible (66000), using 33 MHz instead.
VP_IDE: Use ide0=ata66 if you want to assume 80-wire cable.
VP_IDE: VIA vt8233 (rev 00) IDE UDMA100 controller on pci0000:00:11.1
    ide0: BM-DMA at 0xd800-0xd807, BIOS settings: hda:DMA, hdb:DMA
    ide1: BM-DMA at 0xd808-0xd80f, BIOS settings: hdc:DMA, hdd:DMA
```

--

that its resetting the speed back to 33mhz. The boot process seemed to be faster till then. I'm going to try the ide0=ata66 and ide1=ata66 next.

I've read the lspci manpage, and the kernel-parameters.txt without getting any real insight re this.

Can someone explain what the + an - signs in the lspci output are really telling me?

--

Cheers, Gene

"There are four boxes to be used in defense of liberty: soap, ballot, jury, and ammo. Please use in that order."

-Ed Howdershelt (Author)

99.22% setiathome rank, not too shabby for a WV hillbilly
Yahoo.com attornies please note, additions to this message

Linux-Kernel: lspci & idebus=xx confusion

by Gene Heskett are:

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